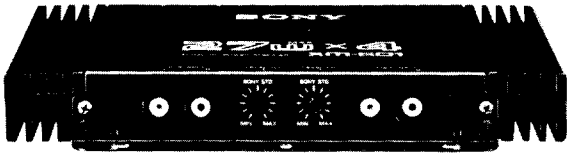
SONY®

STEREO POWER AMPLIFIER

XM-601

OPERATING INSTRUCTIONS

Before operating the unit, please read this manual thoroughly.
This manual should be retained for future reference.



OWNER'S RECORD

The model and serial numbers are located at the bottom. Record the serial number in the space provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. XM-601 Serial No. _____

FEATURES

4-channel stereo power amplifier for playback with a powerful 4-speaker system (27 W × 4 maximum power output).

- A full 14 watts of power per channel (20–20,000 Hz, 0.8%, 4 ohms, Ad Hoc Committee Standard).
- Low distortion of less than 0.08%.
- The remote power system automatically switches the amplifier on when a connected cassette player or tuner is turned on.

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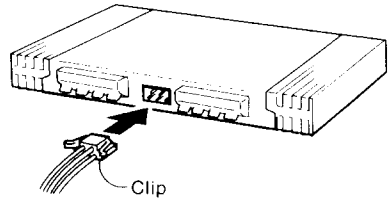
INSTALLATION

The unit can be mounted in the trunk room or under the dashboard using the supplied bolts, or under the front seat on the floor carpet with the supplied Velcro tapes.

Note
Choose the mounting location carefully so that the unit will not interfere with the normal driving functions of the driver and that the unit will not be exposed to direct sunlight or hot air from the heater. Do not install the unit under the floor carpet, where the heat dissipation from the unit will be considerably impaired.

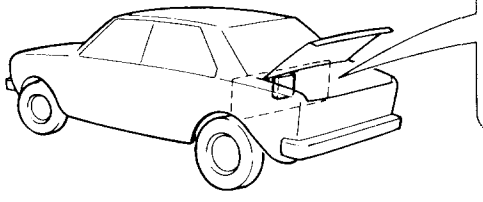
CORD ATTACHMENT

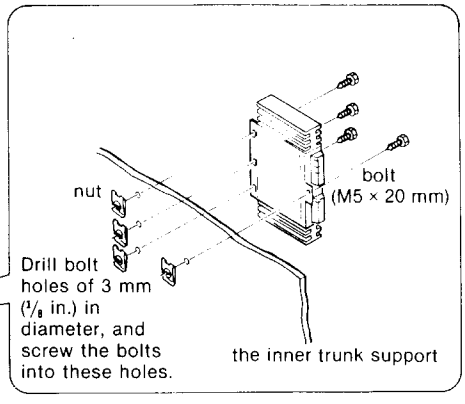


To remove the cord connector, push in the clips on the connector and pull it out.

TRUNK INSTALLATION

1 Using the mounting plate of the XM-601 as a template, mark the locations of the holes on a level surface on an inner trunk support and drill the bolt holes 3 mm (1/8 in.) in dia.
2 Secure the unit to the support.





If the support is thin, drill bolt holes of 3 mm (1/8 in.) in diameter, then screw the bolts into these holes and secure them with nuts. If the support has sufficient thickness, the nuts are not required.

INSTALLATION OVER THE FLOOR CARPET

The unit can be mounted on the floor carpet with the supplied Velcro tapes.

INSTALLATION UNDER THE DASHBOARD

The installation procedure is the same as that of the trunk installation.

Note
Be careful not to damage wiring or equipment on the other side of the dashboard.

If you encounter any difficulty with the installation, consult your nearest Sony dealer.

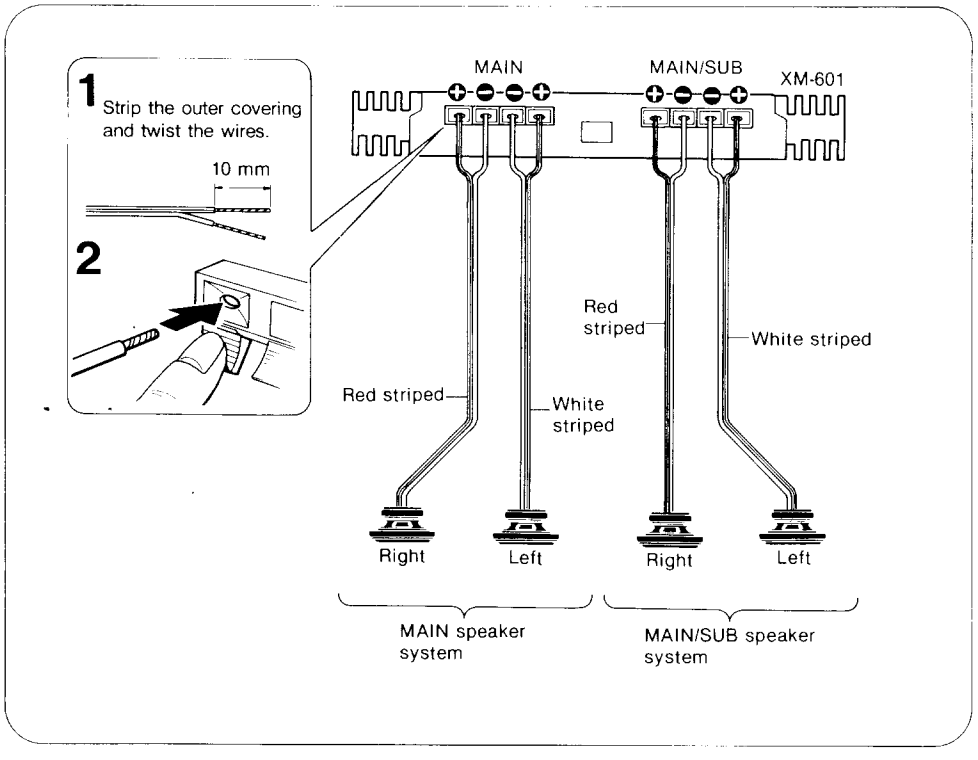
CONNECTIONS

Caution

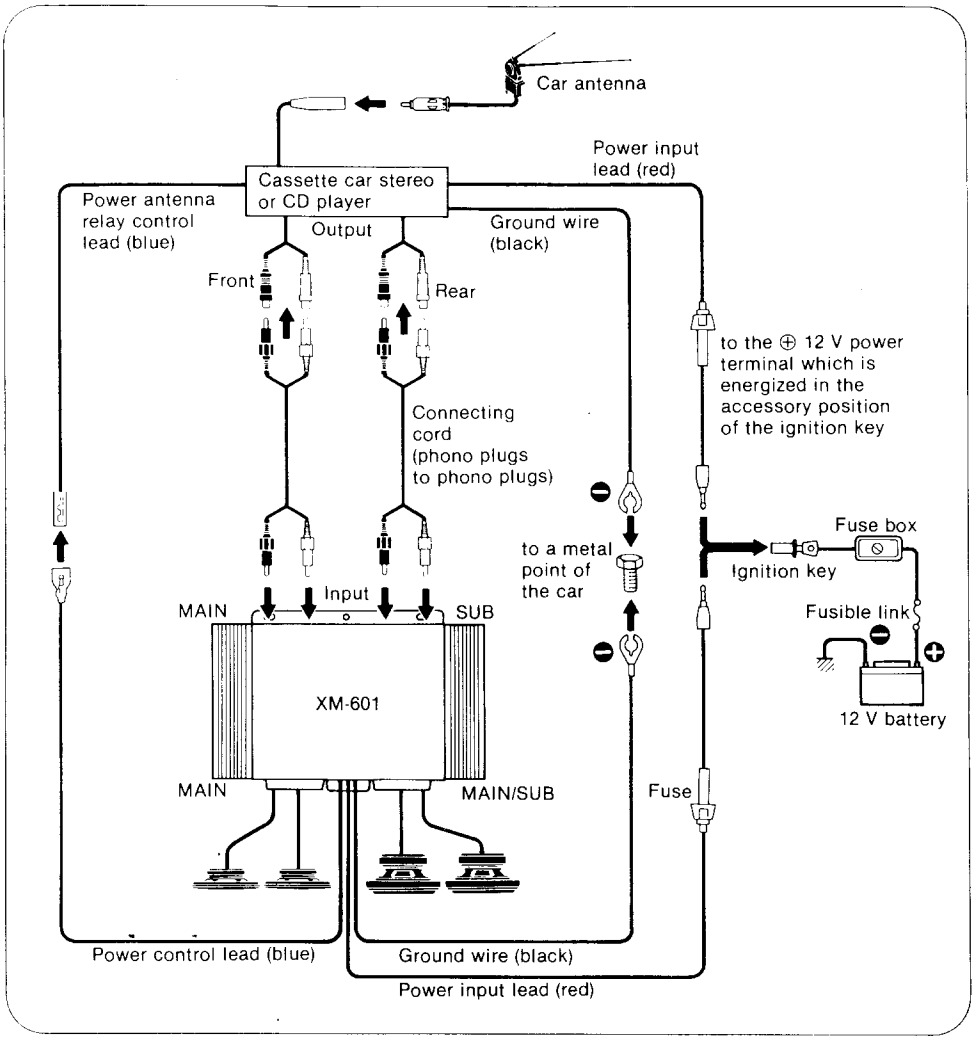
- Before making connections, disconnect the ground terminal of the car battery to avoid short circuits.
- Connect the red power input lead only after all other leads have been connected.
- Run all ground wires to a common ground point.

SPEAKER CONNECTION

- Since the XM-601 employs the BTL (balanced transformerless) circuit system, be sure to make speaker connections as illustrated.
  If the connection is made through already existing speaker leads which have a common ⊖ lead for both right and left channels, it is possible that the amplifier and the speaker system will be damaged.
- Do not connect the ⊖ terminal of the speaker system with the car chassis, and do not connect the ⊖ terminal of the right speaker with that of the left speaker. Doing so will damage the XM-601.



CONNECTION EXAMPLE



Notes

- 4-speaker system is possible even when using a car stereo equipped with one output connecting cord. In that case, connect the output connecting cord of the car stereo to the MAIN input jacks of the XM-601. The sound will be heard from both front and rear speaker systems.
- The levels of the MAIN speaker system and SUB speaker system can be adjusted with the LEVEL ADJ controls also when connecting the output connecting cord of the car stereo only to the MAIN input jacks of the XM-601.

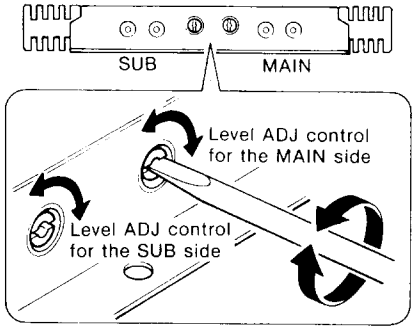
PRECAUTIONS

- This unit is designed for negative ground 12 V DC operation only.
- Use speakers with an impedance of 3.2 to 8 ohms.
- Avoid installing the unit where:
  - It would be subject to high temperatures, such as from direct sunlight or from hot air from the heater.
  - It would be exposed to rain or moisture.
  - It would be subject to dust or dirt.
- If your car is parked in direct sunlight and there is a considerable rise in temperature inside the car, allow the unit to cool off before operating.
- If no power is being supplied to the cassette player or tuner, check the connections first, and if everything is in order, check the fuse.

If you have any question or problem concerning your unit that is not covered in this manual, please consult your nearest Sony dealer.

LEVEL ADJ (INPUT LEVEL ADJUSTMENT) CONTROLS

With these controls, the MAIN and SUB input levels can be varied independently. The controls are factory-set to the center click position for Sony equipment. When using source equipment of other manufacturers, turn the controls with a screwdriver to adjust the output level of the speaker, if necessary.

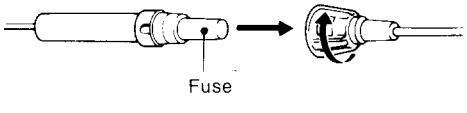


Note
The adjustment range of the LEVEL ADJ control is considerably large.
Be sur to **set the control to the center click position** (SONY STD) when a Sony equipment is connected.

FUSE REPLACEMENT

The fuse will blow if excessive current is drawn. If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. You should consult your nearest Sony dealer.

Warning
Use an 10 ampere fuse for the red power input lead. Use of a higher amperage fuse may cause serious damage.



SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:
14 watts per channel minimum continuous average power into 4 ohms, 4 channels driven from 20–20,000 Hz with no more than 0.8% total harmonic distortion per Car Stereo Ad Hoc Committee standards.

OTHER SPECIFICATIONS

Circuit system
BTL system
Inputs
Auxiliary inputs (phono jacks) 4
Remote control input (sure seal connector)..... 1
Outputs
Speaker outputs (terminals) 8
Speaker impedance
3.2–8 ohms
Frequency response
20–50 kHz $^{+0}_{-3}$ dB (4 ohms, 1 W)*
Maximum power output
27 watts per channel minimum RMS at 4 ohms (4 channels driven)
Harmonic distortion
Less than 0.08% (1 kHz, 4 ohms, 1 W)
Power requirements
12 V DC car battery (negative ground)
Current drain
12 A (at maximum output)*
Mounting dimensions
Approx. 240 × 30 × 163 mm (w/h/d)
($9\frac{1}{2} \times 1\frac{3}{16} \times 6\frac{1}{2}$ inches)
Weight
Approx. 1.4 kg (3 lb 1 oz)

Accessories supplied
- Mounting hardware (1 set)
- Velcro tapes (2 pairs)
- Spare fuse (10 A) (1)
- Connecting cord (1)
- Connecting cord (two phono plugs to two phono plugs) (2)

*Measured at 14.4 V

Design and specifications subject to change without notice.